CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.12/KRIDL/CEMENT/2012-13

Date: 03.05.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
NAME OF THE WORK	:	Metalling of Roads and Construction of Drains and Culverts at Narayanaswamy Layout 1st and 2nd Cross Abbigere in Shettyhalli Sub Division in Ward No.12, BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/SSD/DZ/PR/2012-13
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	495 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	27.50 %	-

AE W-12

Note:

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Job No.: CTCE/BBMP/W.No.12/KRIDL/SAND/2012-13 : 03.05.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Metalling of Roads and Construction of Drains and Culverts at Narayanaswamy Layout 1st and 2nd Cross Abbigere in Shettyhalli Sub Division in Ward No.12, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2012-13

Date of Testing : 03.05.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	103	5.15	5.15	94.9	90-100
2.36	227	11.35	16.50	83.5	75-100
1.18	495	24.75	41.25	58.8	55-90
600 Micron	421	21.05	62.30	37.7	35-59
300 Micron	496	24.80	87.10	12.9	8-30
150 Micron	212	10.60	97.70	2.3	0-10

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Job No.: CTCE/BBMP/W.No.12/KRIDL/SAND/2012-13 : 03.05.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Metalling of Roads and Construction of Drains and Culverts at Narayanaswamy Layout 1st and 2nd Cross Abbigere in Shettyhalli Sub Division in Ward No.12, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2012-13

Date of Testing : 03.05.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **26000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	1013	3.90	3.90	96.10	95-100
20	15595	59.98	63.88	36.12	30-70
10	6357	24.45	88.33	11.67	10-35
4.75	2580	9.92	98.25	1.75	0-5

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CUBE/2012-13 11.06.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager (West),** KRIDL, Bangalore.
Name of the work	: Metalling of Roads and Construction of Drains and Culverts at Narayanaswamy Layout 1st and 2nd Cross Abbigere in Shettyhalli Sub Division in Ward No.12, BBMP, Bangalore.
Reference	: BBMP/AEE/SSD/DZ/PR/2012-13
Sample ID	: Culvert Deck Slab Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.05.2013	11.06.2013	8.362	505.9	22.48
2	14.05.2013	11.06.2013	8.145	488.3	21.70
3	14.05.2013	11.06.2013	8.257	494.2	21.96

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Job No.: CTCE/BBMP/W.No.12/KRIDL/WBM-II/2012-13

Date: 15.07.2013

REPORT

Client	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the Work	:	Metalling of Roads and Construction of Drains and Culverts at Narayanaswamy Layout 1st and 2nd Cross Abbigere in Shettyhalli Sub Division in Ward No.12, BBMP, Bangalore.
Reference	:	BBMP/AEE/SSD/DZ/PR/2012-13
Type of Mix	:	Water Bound Macadam (Grade-II Metal)
Date of Sampling	:	12.07.2013
Date of Testing	:	15.07.2013

1) SEIVE ANALYSIS :

IS Sieve designation Size, mm	Percentage Passing for Graded Aggregate of Nominal size	Percentage by Weight Passing as per MORTH table 400-7
90mm	100.00	100.00
63mm	95.55	90-100
53mm	31.30	25-75
45mm	9.75	0-15
22.4mm	1.60	0-5

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Job No.: CTCE/BBMP/W.No.12/KRIDL/WBM-III/2012-13

Date: 05.08.2013

REPORT

Client	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the Work	:	Metalling of Roads and Construction of Drains and Culverts at Narayanaswamy Layout 1st and 2nd Cross Abbigere in Shettyhalli Sub Division in Ward No.12, BBMP, Bangalore.
Reference	:	BBMP/AEE/SSD/DZ/PR/2012-13
Type of Mix	:	Water Bound Macadam (Grade-III Metal)
Date of Sampling	:	02.08.2013
Date of Testing	:	05.08.2013

1) SEIVE ANALYSIS:

IS Sieve designation Size,mm	Percentage Passing for Graded Aggregate of Nominal size	Percentage by Weight Passing as per MORTH table 400-7
63mm	100.00	100.00
53mm	97.45	95-100
45mm	64.20	65-90
22.4mm	6.80	0-10
11.2mm	2.65	0-5

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